

# HAMATEUR CHATTER

The Milwaukee Radio Amateurs Club

May 2009, Volume 17, Issue 5

## Presidents Letter By Brian, KC9HEK

### Greetings to fellow members of MRAC!

In last months Chatter, we chatted about the changes in leadership for MRAC. The current Board of Directors had accomplished a lot in the last several weeks including more detailed plans for Field Day and the Annual MRAC Auction that is this month. Both of these are great events and ones that I have truly enjoyed over the last several years. Please plan on attending both these enjoyable, rewarding and worthwhile events!

I must also add that May is the annual Hamvention in Dayton, Ohio. While I have been traveling almost every week this year, I do plan to spend three days in Dayton and hope I can see a number of the fellow MRAC members there. For those of you who have never attended, you must plan to attend at least once in your ham radio career. Between the forums, vendor exhibits, flea market and fellowship, you will find it a rewarding, informative and fun event.

On a serious note, in last months Amateur Chatter, I let you all know about the resignation of our president, Howard Parks and due to my relocation to New York, I cannot fulfill my obligation to succeed Howard in any meaningful way. This month is the special election for a President to complete the time remaining on Howard's term. Further, we have our annual election for the Board of Directors. Michael Harris, KC9CMT, is our nomination chairman and is still looking for nominations for all these positions. There is still time so please consider who you'd like to see in a leadership role at MRAC or consider contacting Michael and indicating if you may be interested yourself in a position.

While MRAC is unique in it's heritage, culture and prominent position in the Milwaukee / South East Wisconsin amateur radio community, it is also like all other volunteer clubs that both you and I have ever been a part of.

The club is only as good as it's leaders and the active members who volunteer for a variety of responsibilities. Over the last year or so, it has been clear that "volunteerism" in MRAC had been on the decline. Please consider getting actively involved to make this a vibrant organization. You can start with small steps, like simply attending the monthly meets. As you get more comfortable and enjoying the programs (YES, there are some really good programs every month), give the club a few hours a year and pitch in and help out. You will find just a small amount of time will pay back big dividends both to the Club and to yourself!

Concluding, I wish the best to all of you and really hope some of you will step up and take a chance in becoming more active. Your participation can make MRAC a truly exciting and dynamic club.

Hope to see all of you sometime in the future and hopefully our paths will cross in Dayton!

73 de KC9HEK, Brian



### MRAC Officers:

#### Terms Expiring in 2010

- President – Brian KC9HEK
- V-President-Brian, K9LCQ
- Secretary – Sarah,KB9ZNC
- Treasurer – Mark, AB9CD
- Director – Dave,WB9BWP
- Director – Dave,KA9WXN

#### Terms Expiring in 2009

- Director – Al, KC9IJJ
- Director – Vacant
- Director – Mike, KC9CMT

### The Club Phone Number is:

**(414) 332-MRAC or**

**(414) 332- 6 7 2 2**

Visit our website at:

[www.w9rh.org](http://www.w9rh.org)

Mail correspondence to:

**M. R. A. C.**

P.O. Box 070695

Milwaukee, WI 53207-0695

## Board Meeting Minutes

By Brian, K9LCQ

Brian, K9LCQ, called for a motion to accept the last BOD meeting minutes as published in the April Chatter.

A motion to accept the minutes was made by AL, KC9IJJ. The motion was seconded by Mike, KC9CMT.

The motion passed on a voice vote.

### Treasures report

Brian, K9LCQ, called for the treasures report.

Brian, K9LCQ, called for a motion to accept the last BOD meeting minutes as published in the April Chatter.

A motion to accept the minutes was made by AL, KC9IJJ. The motion was seconded by Mike, KC9CT.

The motion passed on a voice vote.

### Repeater Report

AB9CD reported that all is well with the repeater.

K9LCQ asked the question who the members were on the technical committee AB9CD responded with the team consists of the following:

Mark AB9CD

Dave KA9WXN

Dan N9ASA

Dave WB9BWP

### Old Business

### Field Day Update

Jim Trombley, WB9LNU, has family obligations and will not be able to attend this years Field Day. AB9CD, reported that the MRAC will most likely operate as 3 Alpha. Everyone is invited and encouraged to attend Field Day. AB9CD is working out the antenna layout.

### Software Defined Radio update

Poncho has the radio built and only needs a computer to demo the kit.

### Superfest Report

Table setup and manned on Friday and Saturday. Renewals and new member. Lots of visitors. FM simplex contest certificates distributed except for east coast.

### Rain Report update

No progress due to weather at the repeater site.

### Insurance Report

Howard has failed to provide the Treasurer with all the necessary paper work concerning the insurance. Due to a change in membership count, resulted in an increase in cost of \$13 per year. Our coverage is from 11-February-2009 through 10-February-2010.

### Church Donation Letter

No progress.

### Club Website

Website is updated with the current bylaws.

### Declining membership

A lengthy discussion for increasing membership and why we are losing members. Certificates, business cards, monthly door prizes were all mentions as possible enticements. Certificates, business cards, monthly door prizes were all mentions as possible enticements.

### Election Update

KC9CMT reports no new nominees.

### New Business

The club received one free ticket to the Ozaukee hamfest. The board decided to award the ticket as a door prize at the next membership meeting. K9LCQ, called for a motion to approve the awarding of the ham ticket as a board prize at the April meeting. The motion was made by KC9IJJ. The motion was seconded by Dave, WB9BWP. The motion passed on a voice vote.

Due to the next BOD falling on Memorial Day May BOD meeting date will be May 18th.

### June meeting

Future membership meeting need topic June meeting – Tentatively PANCHO and his experience with SDR

### Christmas Party

Should we combine with the SM or MAARS

### Stamps

The club needs additional stamps. Due to the pending postal increase K9LCQ asked for a motion to approve the purchase of 200 Forever stamps

Motion was made by KC9IJJ.

The motion was seconded by AB9CD.

The motion passed on a voice vote

### Adjournment

K9LCQ, called for a motion to adjourn the meeting.

The motion to adjourn was made by AB9CD.

The motion was seconded by WB9BWP.

The motion passed on a voice vote

Meeting adjourned at 8:15PM

## General Meeting Minutes

By Sarah Parks, KB9ZNC

04/30/09 MRAC Membership Meeting 8:50 PM

Brian K9LCQ called the meeting to order. Sarah KB9ZNC read the minutes from the previous meeting. There were no corrections, so Rick WB9GYT moved to accept them as read and Tom WI9TOM seconded. The motion passed. Mark AB9CD read the treasurer's report. Tom WI9TOM moved to accept the report as read, and Al KC9IJJ seconded. This motion also passed without objection.

Mark AB9CD gave a very brief repeater update. Mike KC9CMT reported on Superfest, and Poncho KA9OFA informed the membership that the SDR kit is finished, but he is having trouble getting a signal from it. He hopes to find someone with a laptop, and complete the entire project in one to two weeks.

Regarding nominations – enough people are running to fill all the positions, but nominations are still open. If you would like to nominate yourself or someone else for director or president, contact Mike KC9CMT.

There was a drawing for the door prize: a ticket to the Ozaukee Hamfest. Tom WI9TOM won.

Rick WB9GYT moved to adjourn, and Joe N9UX seconded the motion. It passed without objection. 9:00 PM.



## Field Day On June 27th & 28th

We'll publish more info on FD as more information is available and we receive requests for stations/modes/times/etc. Remember, just over 3 months to FD. Mark the dates on your calendar now! Anyone wanting in on the fun before FD, we are always looking for help with the preparations. Contact us via the MRAC Yahoo Group or email me at [ab9cd@arrl.net](mailto:ab9cd@arrl.net). Until next time, The FD Committee.

For a Google map.

[http://www.w9rh.org/map\\_to\\_field\\_day\\_site.htm](http://www.w9rh.org/map_to_field_day_site.htm)

Mark Tellier, AB9CD, Field Day Chairman

## Field Day Merchandise- Free Shipping

Hey, the free shipping works for Amazon and Newegg, why not for MRAC? We will be ordering FD pins, shirts and any of the other ARRL FD items offered by the ARRL. The logo for FD 2009 is: Check the [ARRL website](#) at for the items that are available. The club will place a group order following the May meeting (the auction meeting). Item must be pre-paid at the time of order. The shipping will be paid with a donation received by the club to help promote FD activity. Items ordered will be available at the June meeting or at FD.

Among the list of items available are the normal pins, shirts and hats. This year you can even get a water bottle (wow!). Missed a pin from a previous year?

Some are still available and we can group order them as well. For 2009, pins are \$5, T shirts are \$12.95 and hats are \$9.95. Go to the website for other items and prices. See [Mark Tellier AB9CD](#).

See our FD captain [Mark Tellier, AB9CD](#), to order an item or email him at [ab9cd@arrl.net](mailto:ab9cd@arrl.net).

\*\*\*\* See Page Five in Your Chatter for a Map to the MRAC Field Day location.

## May is Election Month

Elections for club positions are just around the corner. There are three Board of Director Openings and the position of President of the Club is up for nomination.

All club members are eligible to vote if they have paid their dues for the year on or before the day of the election. A E-mail reminder was sent out to all members in good standing during the beginning of April. As a Club organization, we would very much like all of our members to provide input into the election process. The Board of Directors meets once a month on a Monday for 2.5 hours to discuss club business and issues pertaining to upcoming club functions. So you can see that the board positions are not very time consuming and are rewarding in the sense that you are taking an active part in the administration of your club.

The Board of Director openings are for a two year term. The Presidential opening will serve out the remainder of the present term which terminates in 2010. As of now we have three nominations for board of directors: **Michael Harris KC9CMT, Howard Parks AB9FH, and AL Maahs KC9IJJ.** Our only Candidate for the Position of President so far is **Mark Teller AB9CD.**

The Club by-laws dictate that we hold elections yearly to provide interested parties the opportunity to serve their Club in an official capacity. Next year's elections (2010) will be for the remaining officers of the club, such as Secretary, Treasurer, Vice-President, President and three additional Board Members.

It is important that everyone in the Milwaukee Radio Amateurs Club have an active voice in its affairs. So election time is very important in setting the direction in which you want your club to proceed.

We urge everyone to consider candidates for elected offices. Whether you want to run for office yourself or wish to nominate another club member. We would like any nominations to be forwarded to Michael at [Kc9cmt@earthlink.net](mailto:Kc9cmt@earthlink.net), on or before May 7th, so that nominations can be documented in the May Chatter.

The Election will be held before the club auction at the May 28th meeting.

## Last Club Meeting: Automatic antenna tuners

The MRAC would like to Thank Jerry, K9HXA for the excellent PowerPoint presentation he presented at our April meeting. Very informative and expertly presented. Now we know what auto-tuners are the best buy for our money and also how and where to set them up. Top End Transceivers many times have Auto-Tuners integrated into their circuitry. Jerry feels that the best place for a tuner is away from the Radio.

## Annual May Auction

After the Business Meeting in May will be our annual May Auction of Stuff; Amateur Radio equipment, tools, publications and other treasures. The tradition of auctions goes back to the 1920's. Gather up the stuff you are not using and bring it down to be auctioned off. In recent years a lot of the stuff brought down is donated to the club. That is very much appreciated but not necessary, especially if you need the money. Bring Items.

## Chatter Deadline

The **DEADLINE** for items to be published in the **Chatter** is the 7th of each month. If you have anything (announcements, stories, articles, photos, projects) for the 'Chatter, please get it to me before then.

You may contact me or Submit articles and materials by e-mail at: [Kc9cmt@earthlink.net](mailto:Kc9cmt@earthlink.net)

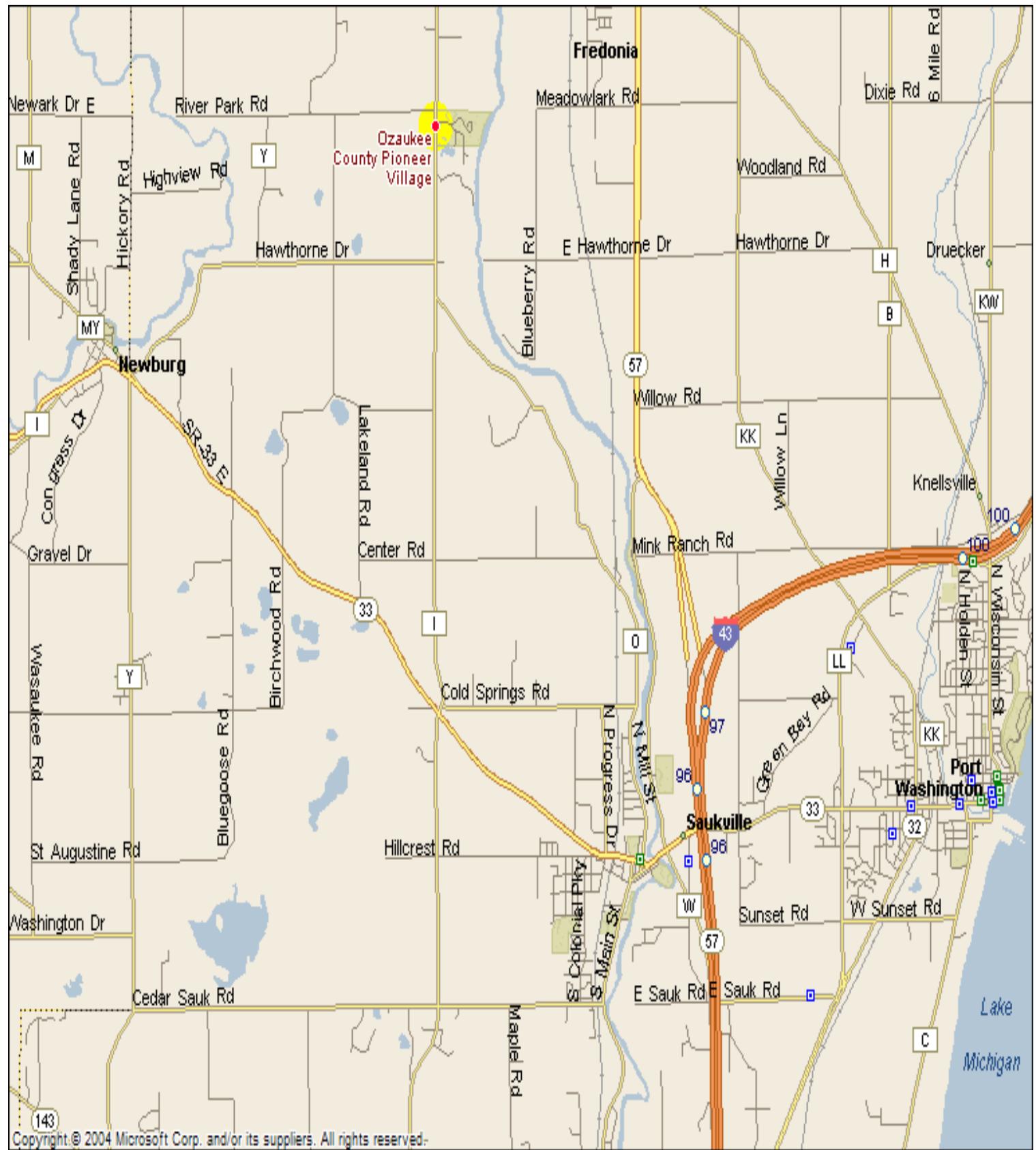
or by Post at:

Michael B. Harris

807 Nicholson RD

South Milwaukee, WI 53172-1447

Our Club Field day sight at Pioneer Village in the Hawthorn County Park complex at Cedarburg. Operation times June 27th 1pm—June 28th 1pm.



## Next Regular Meeting

The next meeting will be May 28th at 7:00PM. We meet in the Fellowship Hall of Redemption Lutheran Church, 4057 N Mayfair Road. Use the south entrance.

**Please do not call the church for information!**

## Club Nets & Breakfast

Please check in to our nets on Friday evenings.

Our ten meter SSB net is at **8:30 p.m. at 28.490 MHz USB.**

Our two meter FM net follows at 9:00 p.m. on our repeater at **145.390 MHz** with a minus offset and a **PL of 127.3 Hz.**

Join us for Saturday morning breakfast at **Maxim's Restaurant, 18025 W. Capitol Dr.** We usually meet at around 8:00 a.m., and order around 8:15 a.m. The food and the company are good and

**You don't have to be a member of the club to join us!**

## Club Repeater, 145.390–MHz (127.3 PL)

Visit our website at: [www.w9rh.org](http://www.w9rh.org)

Or phone **(414) 332-MRAC or 332 - 6722**

## Do You Know Your Q Signals?

The set of international Q-signals has been around for a long time, and most are clearly no longer needed by anyone. A small sample here gives some insight into what things were like when they were first defined. Those were the days before easy voice and data communication and electronic navigation systems, particularly GPS; the days when Morse Code was absolutely essential.

A few examples:

QAH -- What is your altitude? /

My altitude is .....

QAZ -- Are you flying in a thunderstorm? / I am....

QBB -- What is the ceiling height? / The ceiling height is.....

QFG -- Am I over the airport? / You are over the airport. (Negative answer is NIL)

QTO -- Have you left the harbor? / I am leaving the harbor.

QTR -- What is the exact time? /

The exact time is .....

Many years ago, during WWII, I remember having such a list. More recently I thought it sure would be nice if I had kept it, just for old-times sake. As luck would have it, a friend in Austria who is also interested in such things, asked one day whether I would like to have a booklet about radio published in 1944 (First edition had been in 1927). I said yes, and I am glad I did. It is a lot of fun to read, to see what the radio art was like then, and what was then important to know. How times have

changed!

Hans, AE9G



## Copper Cactus Dual-Band Super J-Pole Antenna Project

Your going to like this super J-pole project. This home made j-pole is easy to build and sturdy. While looking for an j-pole antenna project to build I remembered seeing a Marine antenna called the Super J-Pole in the 1988 ARRL Antenna Handbook, which claimed a 6 db gain over a quarter wave ground plane. I didn't have a machine shop at my disposal to fabricate the parts shown in the Marine antenna article so I set about redesigning the antenna using materials that were easy to find and work with. I have had very good results working with copper J-Poles, so I built my refined version of the classic J-Pole. I then added a short insulated section, the extra half wave of vertical length, and the needed half-wave matching stub.



### Materials

All the materials except the S0239 fitting can be found at any good hardware store, and the whole antenna can be made in less than an hour.

In my design I use 1/2" copper schedule M tubing and 1/4" soft copper tubing. I had experimented with using Teflon insulator, but have since changed my design to use a 9" length of hard-wood dowel with three coats of lacquer as the insulator, for more strength.

Clean all the tubing, and then from the 1/2" tubing cut one piece each of the following lengths: 57-1/2"; 38"; 19"; 2", and a piece about 3" long for a stub to mount the antenna. In addition to the tubing, buy a 1/2" elbow, a 1/2" Tee, two 1/2" end caps a 1/2" threaded fitting, and a cast iron floor flange for mounting. Get a piece of 3/16" or 1/4" soft copper tubing 42" long. Find the center of the 1/4" tubing and bend it around a 1"-to-1-1/4" diameter water pipe or dowel.

### Put the Heat to it

Now fire up the torch and start the assembly process from the bottom. See Figure 1. Use flux on all joints, solder the 1/2" threaded fitting to the mounting stub, and solder the 1/2" Tee fitting. Then proceed with the 57-1/2" section, 2" cross piece, and 19" section. Pay close attention to getting the 19" piece parallel to the 57-1/2" piece. After these have cooled, drill through both the 57-1/2" section of the 1/2" tubing and the hard-wood dowel about 1/4" from the top end of the 1/2" tubing, and the bottom of the 38" section of the tubing. (See Photo A.) Then insert the 1/4" tubing to the 1/2" tubing and sweat solder the end caps. After these have cooled, clean the entire antenna, bend the half wave matching section to a half circle of about 4" radius around the antenna to help the balance and match.



### Simplify the Feed Point of the J-pole



The feed point also needed to be made simpler, so I elongated one of the mounting holes of a panel mount SO-239 fitting and inserted a stainless steel adjustable band clamp. This goes on the 57 1/2" long section of 1/2" tubing. A short 2-3/4" length of # 14 copper stranded wire is soldered to the center terminal to go over to the 19" section. I used another stainless clamp to attach this. (See Photo B.) While experimenting to find the proper feed point, I found that the distance above the crossbar should be about 3".

**Part's List**

- 1 10-foot section of schedule M 1/2" copper tubing
- 1 1/2" copper elbow
- 1/2" copper Tee fitting
- 2 1/2" copper end caps
- 1/2" copper threaded fitting (for mounting)
- 1 1/2" cast floor flange (for mounting)
- 1 Piece of 3/16" or 1/4" soft copper tubing 42" long
- 1 Piece of 1/2" hardwood dowel of Fiberglas rod
- 1 SO-239 panel mount coaxial fitting
- 1 Piece of # 14 stranded copper wire
- 2 3/8" by 7/8" stainless band clamps

**Tools needed:**

- Tape measure
- Tubing cutter
- Propane torch
- Electrical tape
- Caulking compound
- Screwdriver
- A weight to keep parts aligned while soldering
- Steel wool or a Scotch Brite pad (for cleaning all copper)
- Spray can of clear exterior lacquer (to finish-coat completed antenna)

**Building Suggestions**

1. You may use a Fiberglas rod as an insulator, but you will have to be very careful with the torch or you may weaken or burn the rod, or make it brittle.
2. When cutting the 1/2" copper tubing, cut the 57-1/2" piece from one end of the 10" length, and the 38" piece from the other end. By doing this you will have factory-cut edges for inserting the 1/2" dowel.
3. Be sure to keep the flame of the torch away from the insulator to avoid burning it.
4. Use paste flux on all joints when fitting the pieces together. Use enough flux, since you will be cleaning the entire antenna with solvent after assembly.
5. Use a weight to hold the 19", 57-1/2", and 2" pieces, and the Tee and the elbow, flat when they are sweat soldered together.
6. Use a ruler or caliper to check the spacing between the 19" and 57-1/2" pieces, to keep them parallel to each other.
7. When drilling the SO-239 fitting, use the drill press. Be careful not to drill into the threads of the fitting. After the holes are drilled, file the opening flat for a better band clamp fit.
8. After the best match has been found, you may want to solder the SO-239 and the stranded wire end to the 1/2" tubing.

9. When the antenna has been cleaned and matched, spray the entire antenna with a coat or two of clear lacquer to keep it looking nice.

10. After everything else has been done, apply silicon or a butyl rubber compound to the insulating section, then cover the joint with electrician's tape for a weather tight seal.

11. A 1/2" pipe coupling and a length of pipe may be used in place of floor flange for mounting in a roof tripod.

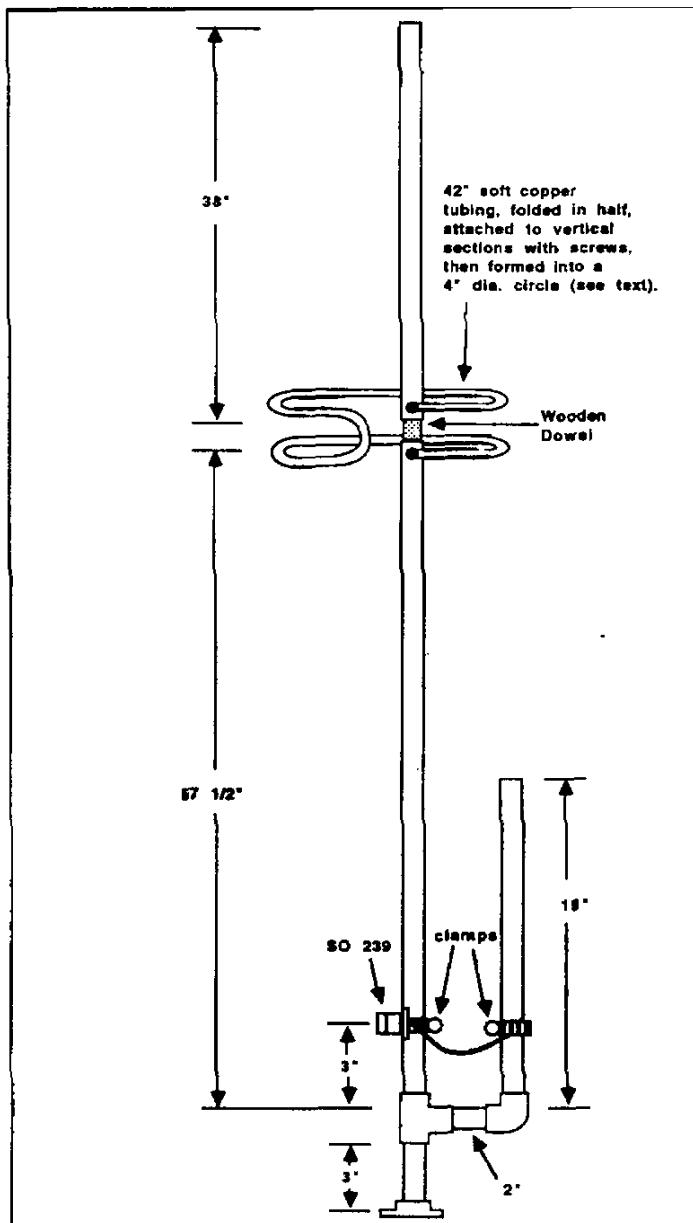


Figure 1. Dimensions for the Super J-Pole.

**Article re-printed with permission of original author: Tom N7QVC.**

## From the ARRL Weekly Bulletin

### ==> ARRL'S TECHNICAL INFORMATION SERVICE PROVIDES MEMBERS WITH ANSWERS

Have you ever had a technical question that you weren't able to figure out? Even after checking with publications such as The ARRL Handbook or the ARRL Antenna Book, you're still stumped. Have you exhausted every resource you can think of, including your Section's Technical Coordinator (TC) <http://www.arrl.org/FandES/field/org/tc.html>? Just when you think you're at the end of your rope, you remember the ARRL Technical Information Service <http://www.arrl.org/tis/>.

The TIS is staffed by members of the ARRL Lab and is here to provide technical assistance at no cost to ARRL members. Many members seem to be using the service: In a six week period (October 20–November 30, 2008), ARRL Lab staff fielded almost 1300 requests for information from the TIS. These ranged from questions on how to choose the best radio, propagation and BPL to questions concerning antennas, feed lines and towers.

ARRL TCs and Technical Specialists (TS) <http://www.arrl.org/FandES/field/org/ts.html> in the field and at ARRL Headquarters can answer your questions on topics ranging from A (ampere) to Z (impedance) -- and just about anything in between. Our technical staff will help you over the phone, refer you to a volunteer ARRL TS in your area or send you the needed information from a growing collection of information packages. For really difficult questions, an ARRL Lab Engineer will research the League's technical library and send you an answer by postal or electronic mail.

ARRL Lab Engineer Mike Gruber, W1MG, remembers a question that a member sent in recently via e-mail: "I have a 250 foot run of Buryflex 213 from the shack to the switchbox at the top of the tower. I know that results in significant loss at, say, 14 and 18 MHz (I seldom work 10 or 15 and the tower antennas are only for HF), but here is the question: Is it ENOUGH of a loss (for the receiver) to warrant running hardline (it would be free) between the shack and tower switchbox with a tail of about 10 feet of 213 inside the shack, and another tail of about 10 feet at the tower end, running from the switchbox to the TA-33, considering the insertion loss of two additional connectors (to connect the hardline to the 213 on each end) and the impedance difference of the hardline compared with the 213?"

Gruber answered the ham, providing a chart he developed, showing "some losses shown for 250 feet of RG-213 vs. half-inch hardline. I selected 50, 100 and 150 ohm resistive loads for this analysis. Any rate, if you consider the case with the highest loss -- 29 MHz with a 150 ohm load -- will only improve by  $3.9 - 1.544 = 2.4$  dB. If you consider that a typical S-unit is 6 dB, the most dramatic improvement in the example cases I selected is still less than half of an S-unit. It's not a homerun by any stretch of the imagination. Of course, that extra 2.311 dB may be significant in some cases. If you ran 1500 W, you would only have 881 W at the antenna feed point. The rest would be lost in the feed line."

ARRL Senior Lab Engineer Zack Lau, W1VT, recalls an interesting question he received from a member: "How can I make a simple circularly polarized antenna out of linear elements?" Lau referred him to an article he wrote, "A Simple 10-Meter Satellite Turnstile Antenna," that appeared in the November/December 2001 issue of QEX.

The TIS, as one of the many services it offers, maintains a database of more than 2000 suppliers that provide goods and services of interest to radio amateurs <http://www.arrl.org/tis/tisfind.html>. These include manufacturers, dealers, publications, clubs and museums, just to name a few. The TIS also keeps what they call an "expanding list" of technical pages that include articles from QST, QEX and The ARRL Handbook, as well as original articles on a variety of subjects including theory, tutorials and projects <http://www.arrl.org/tis/tismenu.html>. Many pages also contain additional sources for materials and information and Web links of particular interest.

If you need a copy of the QST Product Review from May 1985 that featured the ICOM IC-271A 2 meter multimode transceiver, look no further. The TIS also keeps a list of every QST Product Review published since 1970 <http://www.arrl.org/tis/info/prodrev.html>. ARRL members can also download any QST Product review published after 1980 <http://www.arrl.org/members-only/prodrev/bymfg.html>. If you need a quick summary of any HF transceiver featured in a QST Product Review, you can also find it on the TIS Web site.

The TIS also maintains the ARRL Periodicals Archive and Search <http://www.arrl.org/members-only/qqnsearch.html>. This feature provides ARRL members with PDF copies of all QST articles from December 1915 through December 2005, enabling members to view and print their favorite article, project and more. The ARRL Periodicals Archive and Search lists every article for QST from 1915 to the present, QEX from 1981 to the present, Ham Radio Magazine from 1968 to 1990 and NCJ from 1973 to the present (please note that beginning in 1998, each issue of QEX covers two months).

"Having access to every issue of QST through 2005 is absolutely incredible!" said ARRL Lab Manager Ed Hare, W1RFI. "The best of the best of QST from every era is now at the fingertips of every ARRL member with a keyboard and an Internet connection. Members can research articles on any subject that interests them, or just browse the past issues. This valuable content will help radio amateurs who use QST as a technical resource -- for projects, equipment 'hints and kinks' -- and for other research contributing to the advancement of the radio art."

For those needing a higher quality reprint, a reprint from QEX or NCJ, or for hams who are not members of the ARRL, the TIS also provides photocopies of articles for a nominal fee <http://www.arrl.org/members-only/artcopies.html>. You can reach the TIS via e-mail <mailto:tis@arrl.org> or by phone at 860-594-0214.

The TIS is just one of the many benefits available to ARRL members. To learn about all the benefits of ARRL membership, including QST, e-mail forwarding service, the outgoing QSL service and more, please visit the ARRL Membership Web page <http://www.arrl.org/join>.

### VE Testing

#### Saturday, May 30th

AES - 9:30AM

#### Saturday, July 25th

AES - 9:30AM

Amateur Electronic Supply 5720 W. Good Hope Rd. Milwaukee, WI 53223

### Local Swapfests

#### May 30th

Treasures From Your Trunk Swapmeet.

Racine County ARES & Volunteer Center of Racine

6216 Washington Ave.- Western Village

Racine, WI 53406., 3 miles east of I-94 Exit 333 on Hwy 20. **8am—2pm.**

Talk-in 442.000 + 127.3 and 147.270 + CA.

#### August 15th

Racine Megacycle Free fest 2009 Racine Megacycle Club  
Fireman's Park

<http://www.w9udu.org>

Talk-In: 147.270MHz + offset (PL None)

#### September 12th

ORC Fall Ham & Hobby Swapfest

Ozaukee Radio Club

Fireman's Park

<http://www.ozaukeeradioclub.org>

Talk-In: 146.970MHz - offset (PL 127.3)

### CLUB NETS:

- Our Six Meter SSB net is Thursday at 8:00PM on 50.160 MHz USB
- Our Ten Meter SSB net is Friday at 8:00PM on 28.490 MHz ± 5 KHz USB.
- Our Two Meter FM net follows at 9:00PM on our repeater at 145.390MHz - offset (PL 127.3)

### Working Committees

#### Field Day

- Mark - AB9CD

#### FM Simplex Contest

- Sherm - KB9Q
- Joe - N9UX
- Jeff - K9VS
- Brian - K9LCQ

#### Ticket drum and drawing

- Tom - N9UFJ
- Jackie - No Call

#### Newsletter Editor

- Michael - KC9CMT

Webmaster

- Open

Refreshments

- Michael - KC9CMT

#### Membership Information

The Hamateur Chatter is the newsletter of MRAC (Milwaukee Radio Amateurs' Club), a not for profit organization for the advancement of amateur radio and the maintenance of fraternalism and a high standard of conduct. MRAC Membership dues are \$17.00 per year and run on a calendar year starting January 1st. MRAC general membership meetings are normally held at 7:00PM the last Thursday of the month except for November when Thanksgiving falls on the last Thursday when the meeting moves forward 1 week to the 3rd Thursday and December, when the Christmas dinner takes the place of a regular meeting. Club Contact Information Our website address <http://www.w9rh.org>

Telephone (414) 332-MRAC (6722)

Address correspondence to:

MRAC

PO Box 070695,  
Milwaukee WI 53207-0695.

Email may be sent to

[w9rh@arrl.net](mailto:w9rh@arrl.net)

Our YAHOO newsgroup:

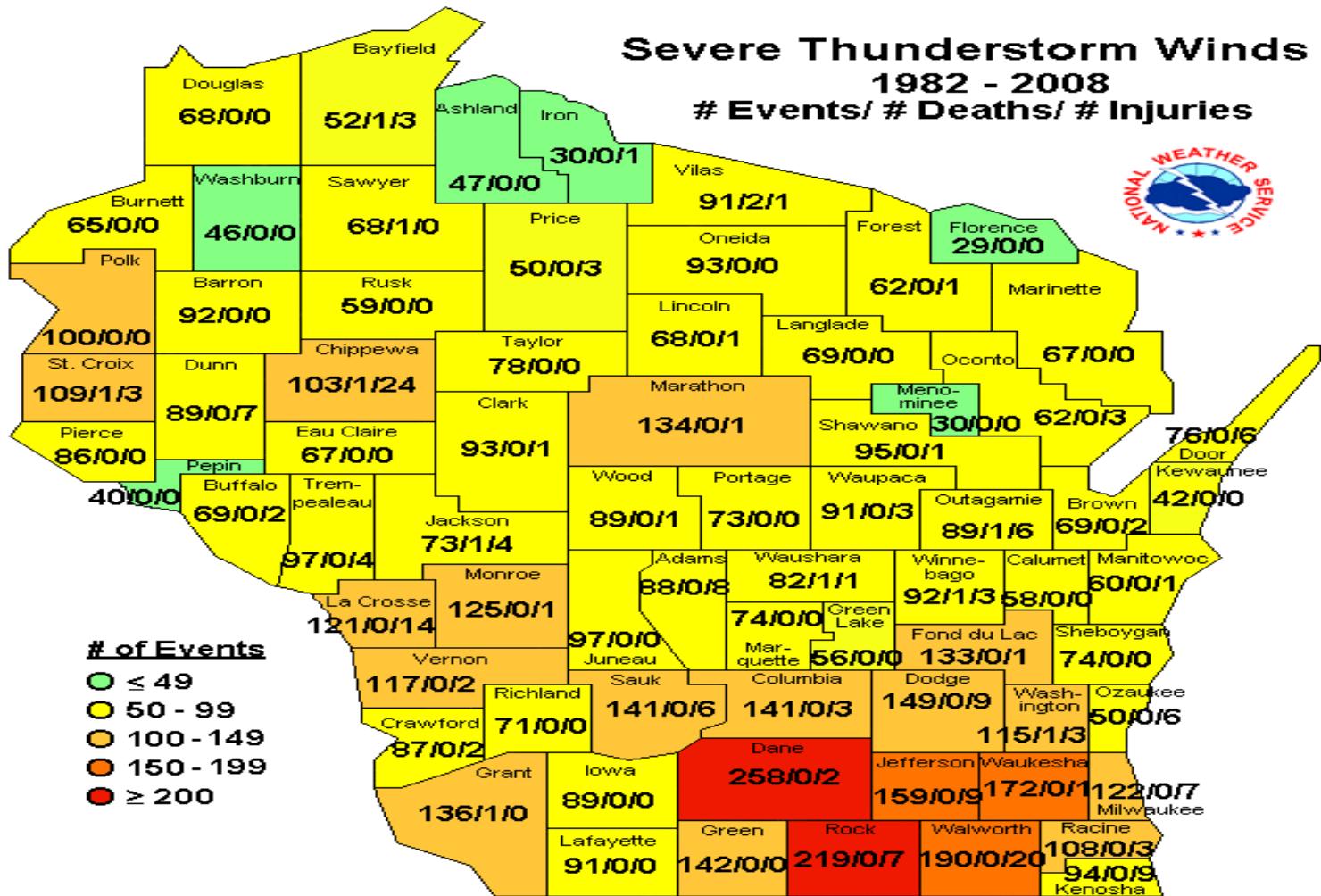
<http://groups.yahoo.com/group/MRAC-W9RH/>

## Milwaukee Area Nets

Mon.8:00 PM 3.994 Tech Net	Thur. 9:00 PM 50.160, 6 mtr SSB Net
Mon.8:00 PM 146.865- ARES Walworth ARRL News Line	Thur. 9:00 PM 146.910 Computer Net
Mon.8:00 PM 146.445 Emergency Net	Fri. 8:30 PM 28.490 MRAC W9RH 10 mtr Net SSB
Mon.8:00 PM 146.865- ARES Net Walworth	Fri. 9:00 PM 145.390 W9RH 2 mtr. FM Net
Mon.8:45 PM 146.670- ARRL voice news (ARES)	Sat. 9:00 PM 146.910 Saturday Night Fun Net
Mon.9:00 PM 50.160 6 mtr .SSB NET	Sun 8:30 AM 3.985 QCWA (Chapter. 55) SSB Net
Mon.9:00 PM 146.670- ARES Net Waukesha-Milwaukee	Sun 9:00 AM 145.565 X-Country Simplex Group
Tue.9:00 AM 50.160 6 . Mtr 2nd Shifter's Net	Sun.10:00 AM 443.800+ FM-38 link to 146.88 Baraboo SWAP Net
Tue.8:00 PM 144.250 Badger Contesters (SSB)	Sun 9:00 PM 146.910 Swap Net
Tue. 8:00 PM 7.035 A.F.A.R. (CW)	Sun 8:00 PM 146.910 Information Net
Tue.8:30 PM 223.500 X-Country Simplex Group (FM)	Sun.8:00 PM 28.365 10/10 International (Milwaukee Ch.) (SSB)

2 meter repeaters are offset by 600KHz -- 70 centimeter repeaters are offset by 5 MHz

SSB frequencies below 20 meters are LSB and for 20 mtrs and above are US



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## **Member Information**